List of Claims:

1. (Original) A method of obtaining a reference subcarrier in each of a plurality of video signal lines for demodulating a chrominance portion of each of said plurality of video signal lines into U and V components, said method comprising:

locking onto a first reference subcarrier of a first video signal line of said plurality of video signal lines;

demodulating said chrominance portion of said first video signal line into first U and V components using said first reference subcarrier; and

obtaining each of said reference subcarrier in each of subsequent said plurality of video signal lines by rotating said first reference subcarrier for a predetermined number of degrees.

- 2. (Original) The method of claim 1, wherein said predetermined number of degrees is 90 degrees.
- 3. (Original) The method of claim 1, wherein said predetermined number of degrees is 180 degrees.
 - 4. (Original) The method of claim 1, wherein said locking uses a phased locked loop.
- 5. (Original) The method of claim 1, wherein said obtaining includes inversion, sin/cos swapping low pass filtering of said first reference subcarrier.
- 6. (Original) A decoder configured to obtain a reference subcarrier in each of a plurality of video signal lines for demodulating a chrominance portion of each of said plurality of video signal lines into U and V components, said decoder comprising:
- a phase locked loop configured to lock onto a first reference subcarrier of a first video signal line of said plurality of video signal lines;

Page 2 of 6

04CXT0010D

a demodulator configured to demodulate said chrominance portion of said first video signal line into first U and V components using said first reference subcarrier; and

wherein said decoder obtains each of said reference subcarrier in each of subsequent said plurality of video signal lines by rotating said first reference subcarrier for a predetermined number of degrees.

- 7. (Original) The decoder of claim 6, wherein said predetermined number of degrees is 90 degrees.
- (Original) The decoder of claim 6, wherein said predetermined number of degrees is 180 degrees.
- 9. (Original) The decoder of claim 6, wherein said decoder obtains each of said reference subcarrier in each of subsequent said plurality of video signal lines through inversion, sin/cos swapping low pass filtering of said first reference subcarrier.
- 10. (Original) A method of controlling a comb filter for comb filtering a plurality of video signal lines to demodulate a chrominance portion of each of said plurality of video signal lines into U and V components, said method comprising:

determining a first reference subcarrier of a first video signal line of said plurality of video signal lines;

demodulating said chrominance portion of said first video signal line into first U and V components using said first reference subcarrier;

using said first U and V components to determine a number of degrees of rotation of said first reference subcarrier from a second reference subcarrier of a second video signal line previous to said first video signal line; and

Page 3 of 6

04CXT0010D

disabling said comb filter if said number of degrees is different from a predetermined number of degrees.

- 11. (Original) The method of claim 10, wherein said predetermined number of degrees is 90 degrees.
- 12. (Original) The method of claim 10, wherein said predetermined number of degrees is 180 degrees.
- 13. (Original) The method of claim 10 further comprising: enabling said comb filter if said number of degrees is the same as a predetermined number of degrees.
 - 14. (Original) A decoder comprising:
 - a comb filter configured to filter a plurality of video signal lines;

a subcarrier generator configured to determine a first reference subcarrier of a first video signal line of said plurality of video signal lines;

a demodulator configured to demodulate said chrominance portion of said first video signal line into first U and V components using said first reference subcarrier; and

wherein said decoder uses said first U and V components to determine a number of degrees of rotation of said first reference subcarrier from a second reference subcarrier of a second video signal line previous to said first video signal line, and said decoder disables said comb filter if said number of degrees is different from a predetermined number of degrees.

- 15. (Original) The decoder of claim 14, wherein said predetermined number of degrees is 90 degrees.
- 16. (Original) The decoder of claim 14, wherein said predetermined number of degrees is 180 degrees.

Page 4 of 6

04CXT0010D

- 17. (Original) The decoder of claim 14, wherein said decoder enables said comb filter if said number of degrees is the same as a predetermined number of degrees.
 - 18. (Cancelled)
 - 19. (Cancelled)
 - 20. (Cancelled)
 - 21. (Cancelled)